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PPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/614,035	07/08/2003	Jin Wu	VIN 213	6713
7590 08/10/2004			EXAMINER	
RABIN & BERDO, P.C.			VORTMAN, ANATOLY	
Suite 500 1101 14th Street, N.W.			ART UNIT	PAPER NUMBER
Washington, DC 20005			2835	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(a)				
		Applicant(s)				
Office Action Summan	10/614,035	WU, JIN				
Office Action Summary	Examiner	Art Unit				
	Anatoly Vortman	2835				
The MAILING DATE of this communic Period for Reply	cation appears on the cover sheet wi	th the correspondence address				
A SHORTENED STATUTORY PERIOD FO THE MAILING DATE OF THIS COMMUNIC  - Extensions of time may be available under the provisions or after SIX (6) MONTHS from the mailing date of this commu  - If the period for reply specified above is less than thirty (30)  - If NO period for reply is specified above, the maximum statused to reply within the set or extended period for reply whave the reply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	CATION.  f 37 CFR 1.136(a). In no event, however, may a r nication.  I days, a reply within the statutory minimum of third utory period will apply and will expire SIX (6) MON rill, by statute, cause the application to become AB	reply be timely filed  ty (30) days will be considered timely.  ITHS from the mailing date of this communication.  BANDONED (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed	l on <i>7/8/03</i> .					
, ,	o)⊠ This action is non-final.					
3)☐ Since this application is in condition for						
,	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) Claim(s) 1-13 is/are pending in the ap	☑ Claim(s) <u>1-13</u> is/are pending in the application.					
4a) Of the above claim(s) is/are	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.	Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-13</u> is/are rejected.	Claim(s) <u>1-13</u> is/are rejected.					
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restricti	on and/or election requirement.					
Application Papers						
9) The specification is objected to by the	Examiner.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any object	ion to the drawing(s) be held in abeyar	nce. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to	by the Examiner. Note the attached	Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) △ Acknowledgment is made of a claim for a) ☐ All b) ☐ Some * c) △ None of:  1. △ Certified copies of the priority does not be copied application from the Internation	ocuments have been received. ocuments have been received in A f the priority documents have been	pplication No				
* See the attached detailed Office action	for a list of the certified copies not	received.				
Attachment(s)						
1) Notice of References Cited (PTO-892)		Summary (PTO-413)				
<ol> <li>Notice of Draftsperson's Patent Drawing Review (PT</li> <li>Information Disclosure Statement(s) (PTO-1449 or P</li> </ol>		s)/Mail Date nformal Patent Application (PTO-152)				
3) Information Disclosure Statement(s) (PTO-1449 or P Paper No(s)/Mail Date	6) Other:					

#### **DETAILED ACTION**

# Claim Objections

1. Claim 1 is objected to because of the following informalities: claim contains two sentences. According to the USPTO practice, a claim must be written only in one sentence. Appropriate correction is required. Claim also recites limitations having improper antecedent basis, for example "the main circuit", "the safety protecting device", etc.

The claims are appear to be a literal translation from a foreign document, therefore the Applicant is thereby advised to review <u>all</u> of the claims for the presence of similar problems.

Appropriate corrections are required.

#### Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the second paragraph of 35 U.S.C. 112:
  - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claim 7 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claim provides for the use of the decorative lighting but, since the claim does not set forth any steps involved in the method/process, it is unclear what method/process applicant is intending to encompass. A claim is indefinite where it merely recites a use without any active, positive steps delimiting how this use is actually practiced.

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Claim is also rejected under 35 U.S.C. 101 because the claimed recitation of a use, without setting forth any steps involved in the process, results in an improper definition of a process, i.e., results in a claim which is not a proper process claim under 35 U.S.C. 101. See for example *Ex parte Dunki*, 153 USPQ 678 (Bd.App. 1967) and *Clinical Products, Ltd.* v. *Brenner*, 255 F. Supp. 131, 149 USPQ 475 (D.D.C. 1966).

### Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 5. Claims 1-5, 7-11, are rejected under 35 U.S.C. 102(b) as being anticipated by US/6,225,610 to Walsh.

Walsh disclosed (Fig. 6) a lighting system with a safety protecting device, which includes: "a main circuit (7), a branch circuit connected to the main circuit (7) and the lighting (123) installed in the branch circuit, the lighting features that there are a self-restoring polymer PTC protecting devices (170-175, 201-213, 2, 12) (i.e. self-mending fuse) installed in the main and branch circuits.

#### Claim Rejections - 35 USC § 103

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6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 6, 12, and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Walsh in view of US/4,720,759 to Tabei.

Walsh disclosed all, but bimetallic fuses.

Tabei disclosed (Fig. 1-4) a bimetallic circuit protector for prevention of both the excess current and the excessive rise of temperature (column 1, lines 15+).

It would have been obvious to a person of ordinary skill in the circuit protector art at the time the invention was made to substitute polymer PTC protection devices of Walsh with bimetallic protectors as taught by Tabei in order to provide protection from both the excess current and the excessive rise of temperature.

8. Alternatively, claims 1-5 and 8-11, are rejected under 35 U.S.C. 103(a) as being unpatentable over US/6,163,113 to Fu in view of either US/6,489,879 to Singh et al. (Singh) or US/2,258,646 to Grisdale.

Fu disclosed (Fig. 2, 3) a decorative lighting with fuses (1) installed in main circuit (Fig. 2) and in branch circuits (Fig. 3), but did not disclose that said fuses are PTC polymer self-mending fuses.

Singh (Fig. 2) and Grisdale (Fig. 2) both teach PCT self-mending (self-restoring) fuses for protection of electrical circuits.

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It would have been obvious to a person of ordinary skill in the circuit protector art at the time the invention was made to substitute said conventional fuses of Fu with polymer self-mending PTC fuses as taught by ether Singh or Grisdale in order to avoid the replacement of burned fuses of Fu.

9. All claims 6, 12, and 13, are rejected under 35 U.S.C. 103(a) as being unpatentable over Fu taken with either Singh or Grisdale as applied to claims 1 and 8 above, and further in view of Tabei.

Fu taken with either Singh or Tabei disclosed all, but bimetallic fuses.

Tabei disclosed (Fig. 1-4) a bimetallic circuit protector for prevention of both the excess current and the excessive rise of temperature (column 1, lines 15+).

It would have been obvious to a person of ordinary skill in the circuit protector art at the time the invention was made to substitute polymer PTC protection devices in combinations of Fu and Singh or Fu and Grisdale with bimetallic protectors as taught by Tabei in order to provide protection from both the excess current and the excessive rise of temperature.

## Conclusion

10. The prior art made of record and not relied upon is considered pertinent to Applicant's disclosure:

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US/1728939, 2461962, 3274441, 3789211, 4075614, 4223248, 4350407, 4425605, 4462065, 4462066, 5777868, 5939839, 6091204, 6424096, 6157139, 4227228, and GB/2045415 disclosed decorative lighting systems and overload protection arrangements for such systems.

US/6104587 and 5663861 disclosed PTC protectors.

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anatoly Vortman whose telephone number is 571-272-2047. The examiner can normally be reached on Monday-Friday, between 10:00 am and 6:30 pm..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Darren Schuberg can be reached on 571-272-2800, ext 35. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Anatoly Vortman Primary Examiner Art Unit 2835

A. Vale -